CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.10/KRIDL/CEMENT/2012-13

Date: 20.03.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Construction of cement concrete drains at RR School Main Road and Cross Roads in Ward No. 10 (Doddabommasandra), Vidyaranyapaura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/VP/WO/403/2012-13 Dated: 16.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	186 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	497 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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Jadhav
AE W-10

20/3/13
ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

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Job No.: CTCE/BBMP/W.No.10/KRIDL/SAND/2012-13 : 20.03.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Construction of cement concrete drains at RR School Main Road and Cross Roads in Ward No. 10 (Doddabommasandra), Vidyaranyapaura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/WO/403/2012-13 Dated: 16.03.2013

Date of Testing : 20.03.2013

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	79	3.95	3.95	96.1	90-100
2.36	278	13.90	17.85	82.2	75-100
1.18	472	23.60	41.45	58.6	55-90
600 Micron	408	20.40	61.85	38.2	35-59
300 Micron	513	25.65	87.50	12.5	8-30
150 Micron	136	6.80	94.30	5.7	0-10

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Job No.: CTCE/BBMP/W.No.10/KRIDL/AGG/2012-13 : 20.03.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Construction of cement concrete drains at RR School Main Road and Cross Roads in Ward No. 10 (Doddabommasandra), Vidyaranyapaura Sub Division, BBMP, Bangalore.

Reference : AEE/VP/WO/403/2012-13 Dated: 16.03.2013

Date of Testing : 20.03.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	976	3.90	3.90	96.10	95-100
20	16234	64.94	68.84	31.16	30-70
10	5028	20.11	88.95	11.05	10-35
4.75	2410	9.64	98.59	1.41	0-5

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Job No.: CTCE/BBMP/W.No.10/KRIDL/STEEL/2012-13 20.03.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of the work	:	Construction of cement concrete drains at RR School Main Road and Cross Roads in Ward No. 10 (Doddabommasandra), Vidyaranyapaura Sub Division, BBMP, Bangalore.
Reference	:	AEE/VP/WO/403/2012-13 Dated: 16.03.2013
Date of Test	:	20.03.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	518	546	12.85	O.K	O.K
2	10	0.62	521	549	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2012-13

24.04.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Construction of cement concrete drains at RR School Main Road and Cross Roads in Ward No. 10 (Doddabommasandra), Vidyaranyapaura Sub Division, BBMP, Bangalore.
Reference	: AEE/VP/WO/403/2012-13 Dated: 16.03.2013
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	27.03.2013	24.04.2013	8.176	513.2	22.81
2	27.03.2013	24.04.2013	8.237	496.6	22.07
3	27.03.2013	24.04.2013	8.205	489.1	21.74

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